User's Manual

KM-150B with FEB-7000 main board, 15 inch LCD

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Important Safety Information

SAFETY INSTRUCTIONS

1. Please read these safety instructions carefully.
2. Keep this User's Manual for later reference.
3. Don't use liquid or spray detergent for cleaning. Use only a moistened sheet or cloth.
4. For pluggable equipment, the socket-outlet should be installed near the equipment and should be easily accessible.
5. Keep this equipment from extreme humidity areas.
6. Lay this equipment on a stable surface when installing.
7. Do not leave this equipment in a non-air conditioned environment, or in a storage temperature above 60° C. Such conditions may damage the equipment.
10. Place the power cord so that it will not be stepped on. Do not place anything over the power cord. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
11. All cautions and warnings on the equipment should be noted.
12. If the equipment is not used for a long time, disconnect the equipment from the mains to avoid damage.
14. Never open the equipment. For safety reasons, qualified service personnel should only open the equipment.
15. If one of the following situations arises, get the equipment checked by service personnel:
    a. The Power cord or plug is damaged.
    b. Liquid has penetrated the equipment.
    c. The equipment has been exposed to extreme moisture conditions.
    d. The equipment does not work well or you cannot get it work according to the user's manual.
    e. The Equipment has been dropped and damaged.
    f. The equipment has obvious signs of damage.

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Chapter 1

Introduction

KM150B Characteristics

- KM150B uses a high speed processor capable of handling a high capacity of data efficiently.
- KM150B's solid quality Aluminum housing distinguishes it from ordinary plastic housings.
- The KM150B touch terminal all-in-one is a robust, fanless design and is suitable for a multitude of business types.
- The LCD panel can be tilted at multiple angles for operator ease of use.
- KM150B security is designed to prevent data theft. The Glaive system can be totally diskless or may be equipped with an internal 2.5" HDD. Data Backup can be constrained to Backup Servers in a network environment, or to (optional) removable external Storage devices making it hard to copy data without authority.
- KM150B is a fanless solution, which utilizes the solid aluminum housing to dissipate any excess heat.
- Additionally the aluminum casing also assures compliance to vigorous EMI radiation testing.

How to Use This Manual

This manual contains all the information you need to set up and use KM150B. In addition, you can also consult the manuals for the operating system and any additional hardware manuals for peripherals that you may have added.

Chapter 1 Provides an introduction to KM150B and this manual.

Chapter 2 Provides all necessary information for all hardware setup.

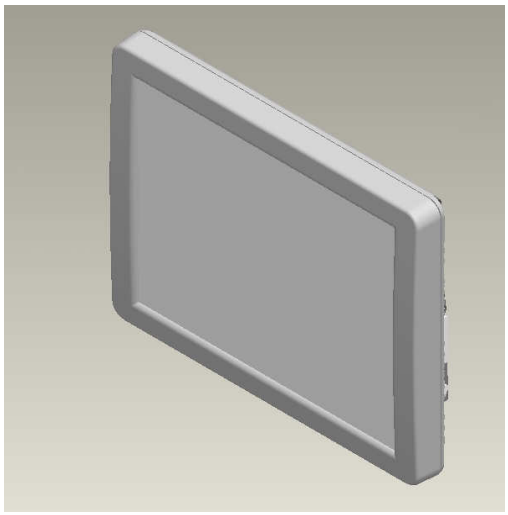
Chapter 3 Provides the necessary information for installing the video drivers, touch screen tools, audio, USB and LAN drivers.

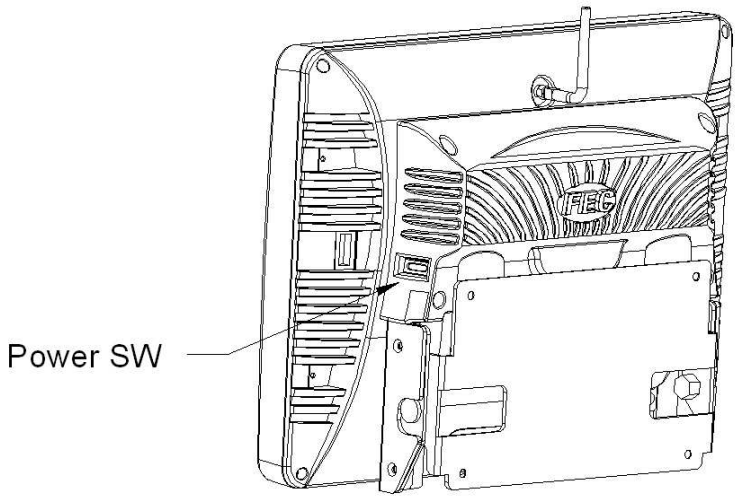
Chapter 4 Lists all KM150 specifications and Information for the mainboard configuration.

Chapter 5 Provides information for troubleshooting the KM150B.

A Visual Tour of KM150B

Before you start, take a few moments to become familiar with KM150B.





What comes with KM150

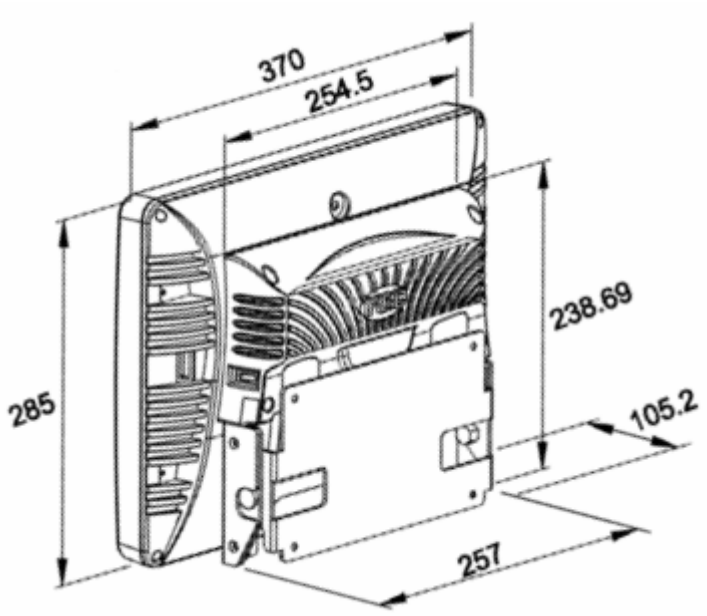
The following items are standard with KM150:

- Main system with LCD panel
- Power adapter
- User's guide
- AC power cord

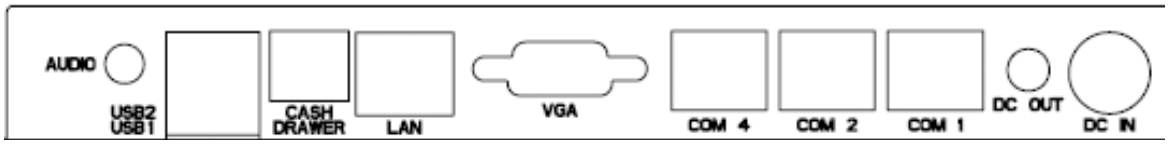
The following items are optional:

- Magnetic Card Reader (MCR) and bracket
- Wireless LAN
- 2.5 inch Hard Disk

KM150 Dimensions



Fully Integrated Connector Panel



I/O Port	Connector Type	Description
Power	DC Power Connector	Connects AL-8510 to the power supply.
Cash Drawer	RJ11 Connector	Cash Drawer Connector, 12 V Actuation support for solenoid.
Line Out	Earphone Connector	The audio port is for speakers.
LAN	LAN RJ45 Connector	The LAN port is used to hook Glaive to a local area network.
COM1 **COM2** **COM4**	RJ45 serial ports Connector	This RJ45 serial ports COM1/COM2 / COM4 can be used to connect serial devices
VGA	VGA Connector	The VGA port is for use with an external LCD or CRT monitor.
USB 1 & 2	USB Type A Connector	This is a USB version 2.0 for additional devices

Chapter 2

Hardware Setup

KM150 Assembly

Please make sure that the power supply is disconnected when making any hardware changes to KM150.

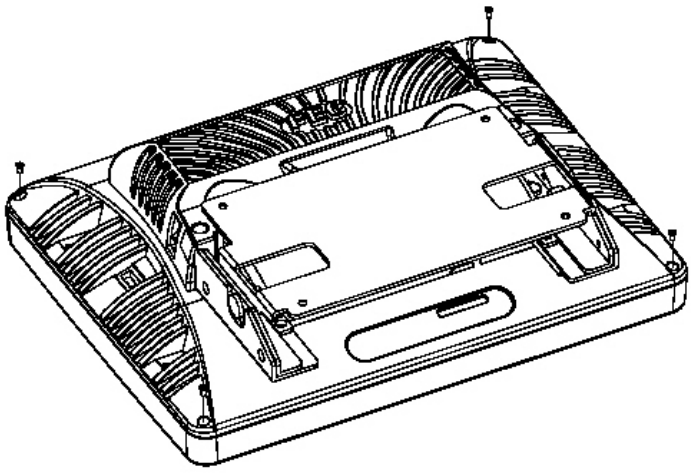
Hard Disk Device Installation

A standard KM150B comes without a hard disk drive (HDD), unless it is pre-requested.

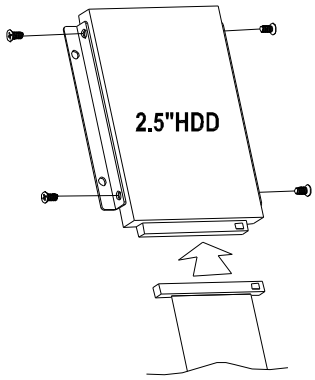
Installing a HDD

1. Turn off power and remove power cable from main unit.

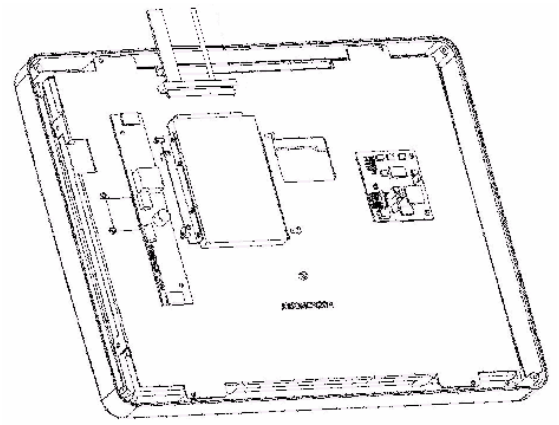
2. Remove 4 screws and slightly separate the LCD front frame from the rear housing.



3. Lay the LCD face down on a flat surface and use the 4 screws provided to mount the HDD into the bracketed space.



4. Install 2.5 inch hard disk and connect SATA cable.



5. Reassemble the LCD front frame and rear housing and secure with 4 screws.
6. Connect the main unit power.

Note: If the HDD does not work normally, please refer to **troubleshooting**

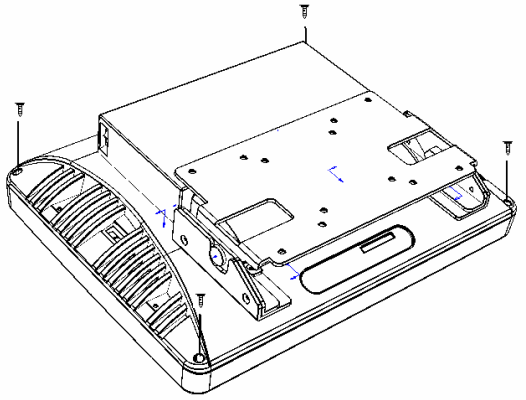
Wireless installation

An optional Wireless module can be installed the internal of the KM150.

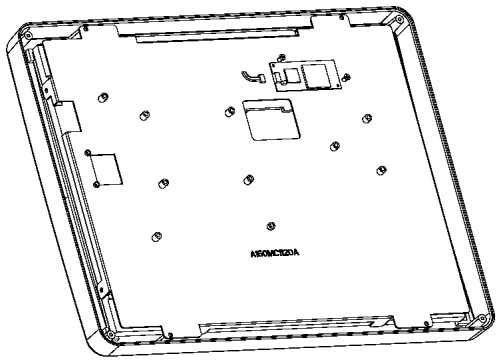
Installing an Wireless

1. Turn off system power.

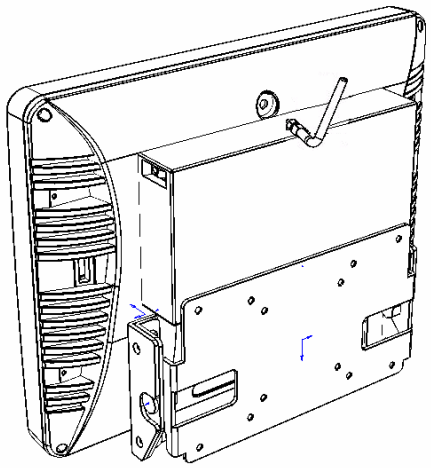
2. Remove 4 screws and slightly separate the LCD front frame from the rear housing.



3. Install Wireless module and cable

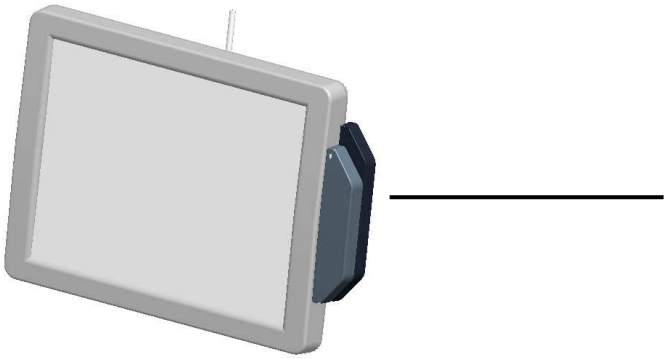


4. Install An



Magnetic Card Reader Installation

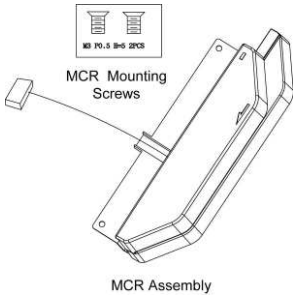
An optional Magnetic Card Reader (MCR) can be installed on the right side of the KM150.



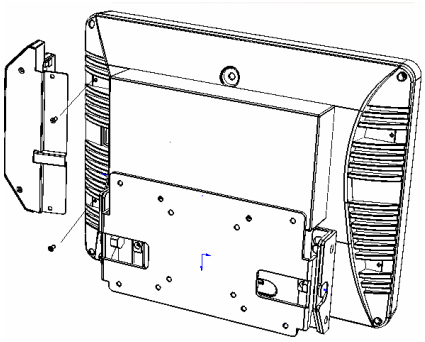
Installing an MCR

5. Turn off system power.
6. Unplug the loopback from the MCR socket. The MCR socket is found on the right side on the back of the main Unit.

7. Connect the MCR cable to the MCR socket.



8. Secure two screws



Note: If the MCR does not work normally, please refer to **troubleshooting.**

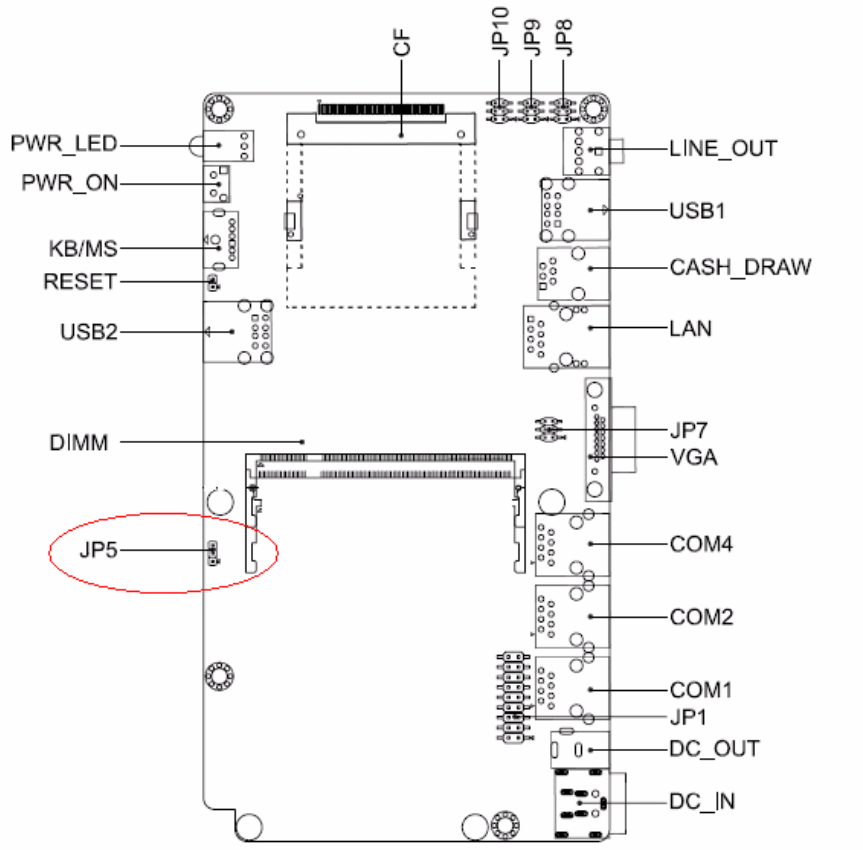
Attention: The loopback or the MCR cable must be inserted in the socket for an external keyboard to function with KM150B.

CMOS Setup

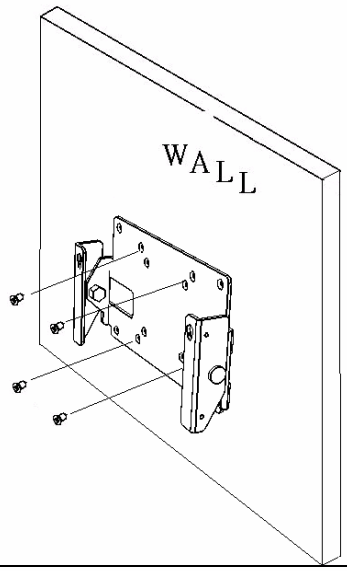
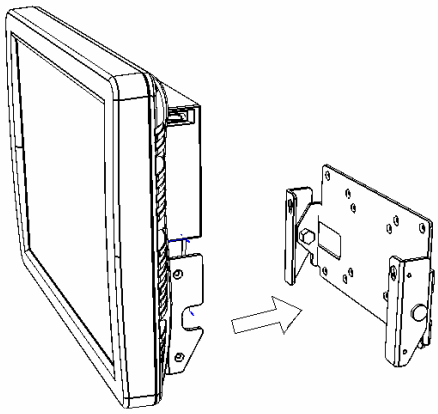
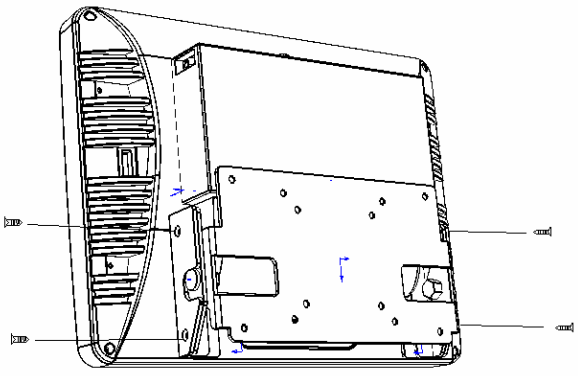
Please clear M/B FEB7000 JP5

Clear CMOS(JP5)

1-2	2-3
Protected	Clear



Wall Mount Assembly Instruction

	Wall mount plate Secure wall VESA mount plate to the wall screws.	
	Connect DC In Connector with cable from power supple. Hang the system unit onto the wall mount plate.	
	Secure with two screws on each side.	

Chapter 3

Software Setup

Operating System Installation

KM150B units are widely used as networked Thin Client terminals and as such do not have an internal hard disk drive. This is our factory default. However, users can upgrade KM150B later by adding their own hard disk drive. Similarly the unit may have been ordered and delivered with a hard disk drive installed. And unless the unit has also been pre-installed with an operating system, then one will have to be installed.

Windows 2K/XP installation

Installing Windows 2K or XP can be performed on the Glaive quite simply

Items required:

A USB CDROM drive

1. Attach the USB CDROM drive to Glaive.
2. In the CMOS setup “Advanced Chipset setup” change the item “USB Device Legacy Support” to “All Devices” this will allow booting from any USB bootable device.
3. Power on and modify CMOS BIOS settings to enable the USB CDROM to be the first bootable device (see CMOS setup in the motherboard manual)
4. Insert the 2K or XP CDROM disk into the drive
5. Reboot the system
6. The Glaive will boot from CDROM drive and automatically start the setup programs
7. Follow the onscreen instructions for normal installation of 2K or XP

Chipset Driver Installation

Chipset Installation Utilities for Windows XP

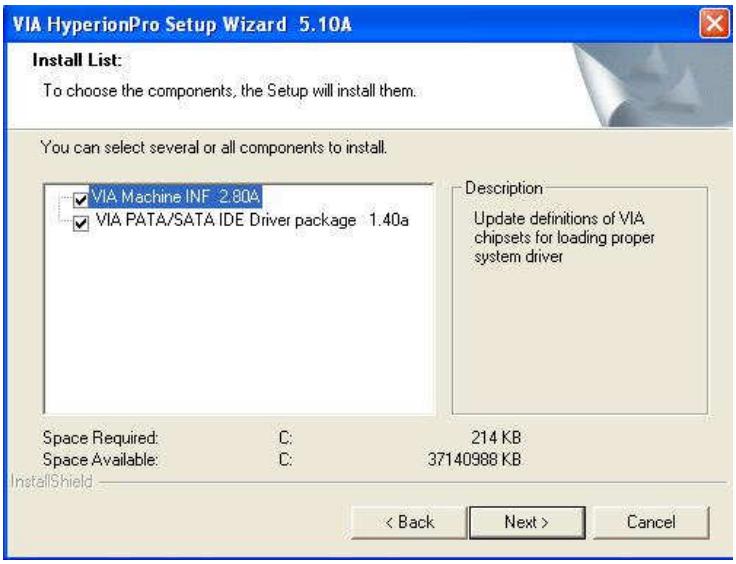
1. Locate **:\Chipset** folder
2. Run **Setup.exe**

Welcome
4 IN 1 Driver
Welcome to the VIA Service Pack Setup program. This program will install VIA Service Pack on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

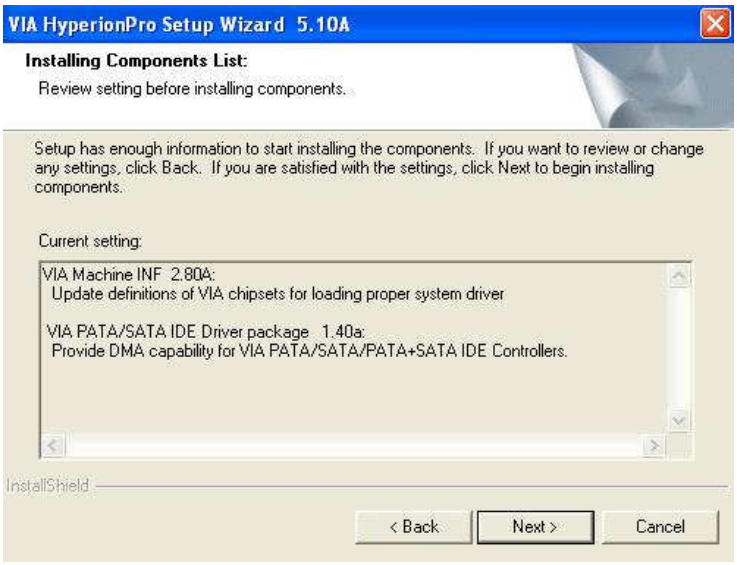
3. Click **Next**

VIA HyperionPro Setup Wizard 5.10A
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
VIA SOFTWARE LICENSE AGREEMENT
Please read carefully before you download, install, or use any VIA SOFTWARE.VIA SOFTWARE means the software program you are currently trying to download, and all related updates supplied by VIA Technologies, Inc. ("VIA").
By clicking on the "I AGREE" button, and by downloading and installing the VIA SOFTWARE, you accept all the terms and conditions of this Agreement. If you do not agree to the terms and conditions of this Agreement, do not click the "I AGREE"
I Agree
I Don't Agree
InstallShield
< Back
Next >
Cancel

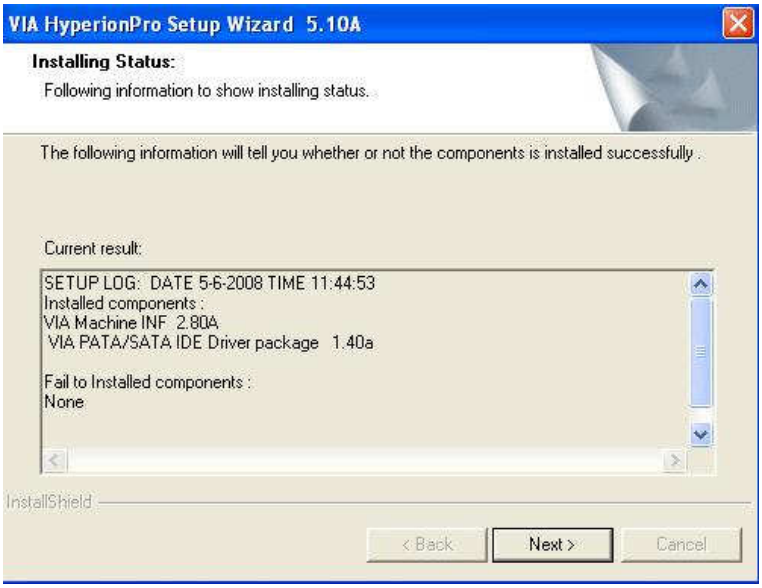
4. Click "**I Agree**"


VIA HyperionPro Setup Wizard 5.10A
Install List:
To choose the components, the Setup will install them.
You can select several or all components to install.
VIA Machine INF 2.80A
VIA PATA/SATA IDE Driver package 1.40a
Description
Update definitions of VIA chipsets for loading proper system driver
Space Required: C: 214 KB
Space Available: C: 37140988 KB
InstallShield
< Back
Next >
Cancel

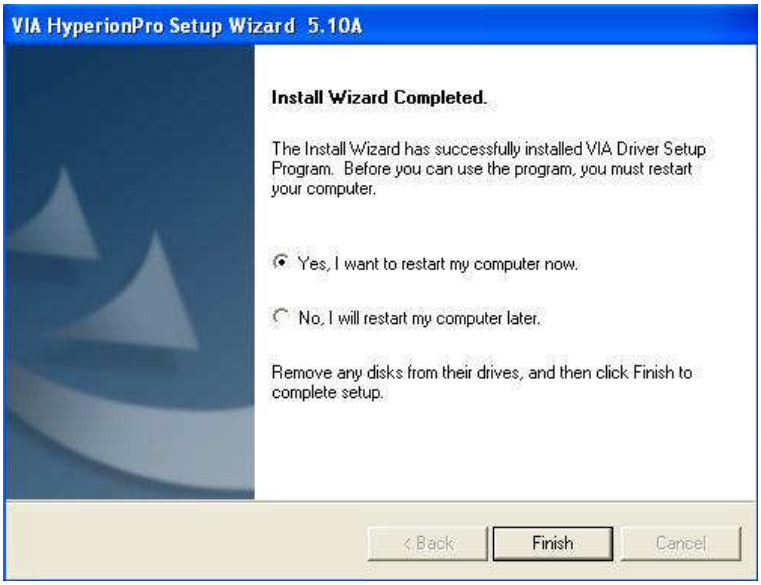
5. Click **Next**


VIA HyperionPro Setup Wizard 5.10A
Installing Components List:
Review setting before installing components.
Setup has enough information to start installing the components. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin installing components.
Current setting:
VIA Machine INF 2.80A:
Update definitions of VIA chipsets for loading proper system driver
VIA PATA/SATA IDE Driver package 1.40a:
Provide DMA capability for VIA PATA/SATA/PATA+SATA IDE Controllers.
InstallShield
< Back
Next >
Cancel

6. Click **Next**


VIA HyperionPro Setup Wizard 5.10A
Installing Status:
Following information to show installing status.
The following information will tell you whether or not the components is installed successfully .
Current result:
SETUP LOG: DATE 5-6-2008 TIME 11:44:53
Installed components :
VIA Machine INF 2.80A
VIA PATA/SATA IDE Driver package 1.40a
Fail to Installed components :
None
InstallShield
< Back
Next >
Cancel

7. Click **Next**


VIA HyperionPro Setup Wizard 5.10A
Install Wizard Completed.
The Install Wizard has successfully installed VIA Driver Setup Program. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

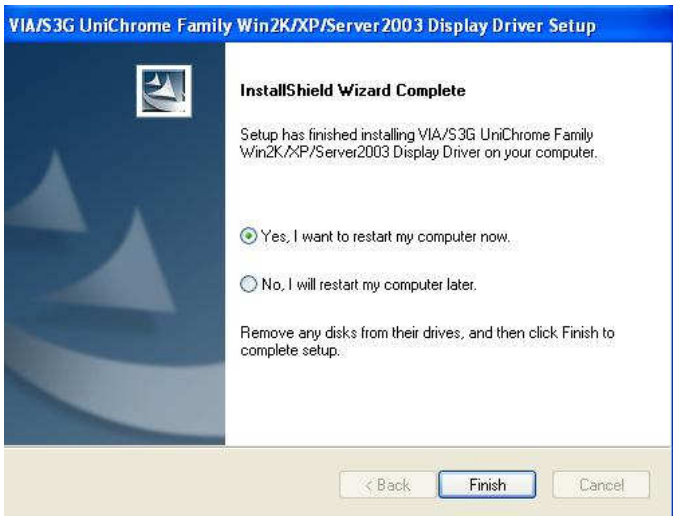
8. Click **Finish**

VGA Driver Installation

VIA/S3G driver installation Windows 2000/XP

1. Open **D:\VGA\VIA\ Twister\WIN2K&XP** folder.
2. Run **Setup.exe**.

3. Select **Next** to continue.


VIA/S3G UniChrome Family Win2K/XP/Server2003 Display Driver Setup
InstallShield Wizard Complete
Setup has finished installing VIA/S3G UniChrome Family Win2K/XP/Server2003 Display Driver on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

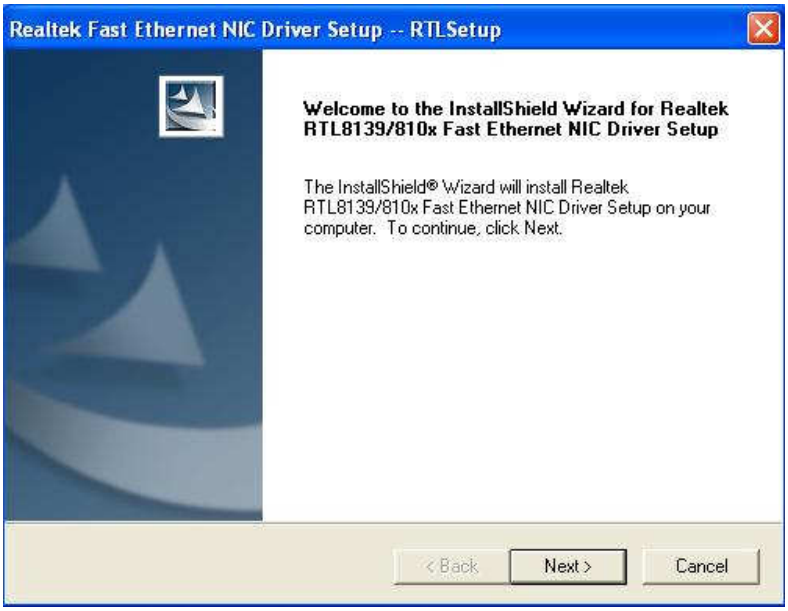
4. Click **Finish** to complete the installation procedure and restart Glaive.

LAN Driver Installation

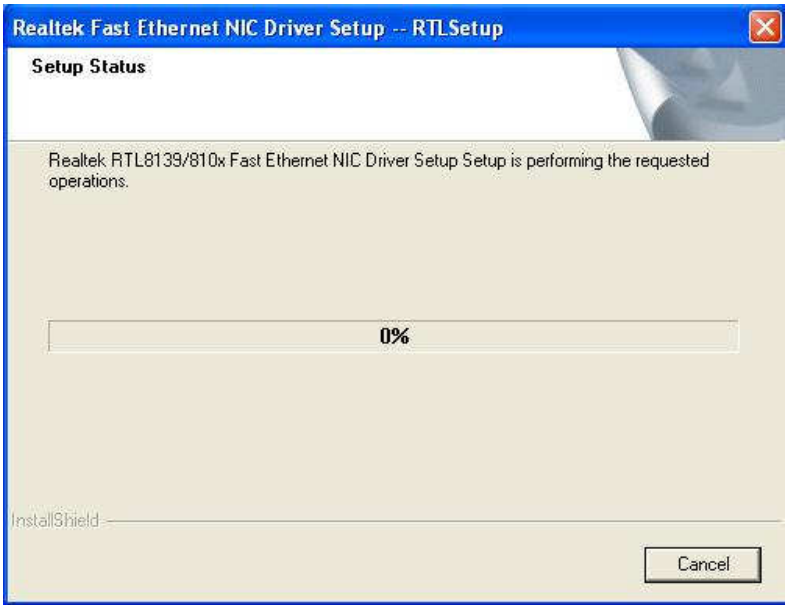
Realtek RTL8139/810x LAN Driver Installation Windows XP

1. Open Device Manger in the System Properties.

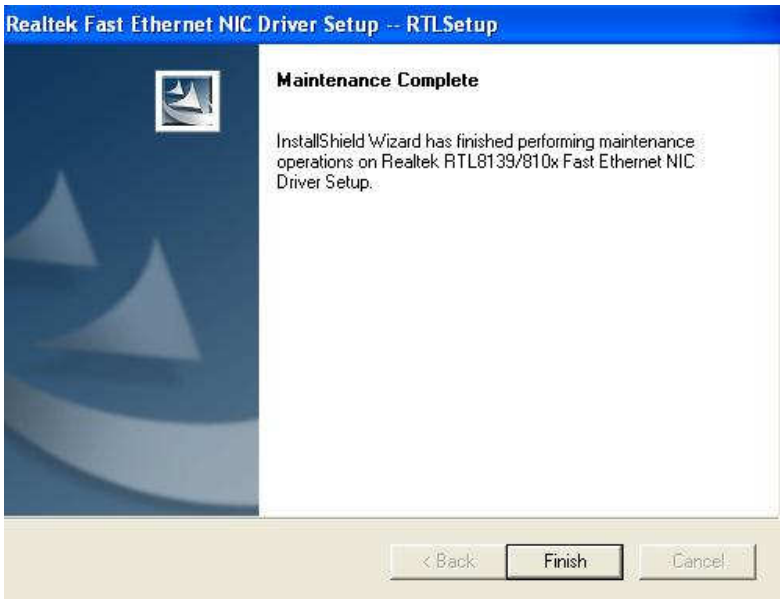
Select **PCI Ethernet Controller**


Realtek Fast Ethernet NIC Driver Setup -- RTLSetup
Welcome to the InstallShield Wizard for Realtek RTL8139/810x Fast Ethernet NIC Driver Setup
The InstallShield® Wizard will install Realtek RTL8139/810x Fast Ethernet NIC Driver Setup on your computer. To continue, click Next.
< Back
Next >
Cancel

2. Click **Next**


Realtek Fast Ethernet NIC Driver Setup -- RTLSetup
Setup Status
Realtek RTL8139/810x Fast Ethernet NIC Driver Setup Setup is performing the requested operations.
0%
InstallShield
Cancel

3. Waiting Copy file.

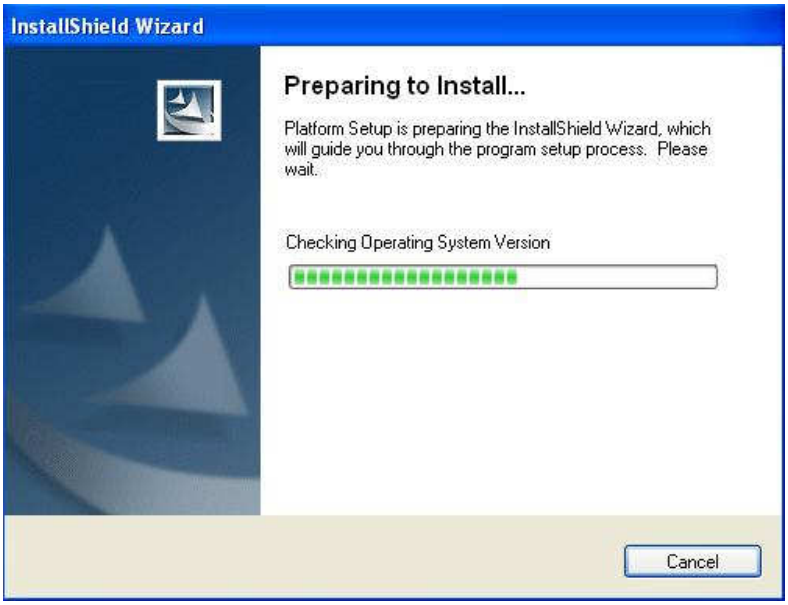

Realtek Fast Ethernet NIC Driver Setup -- RTLSetup
Maintenance Complete
InstallShield Wizard has finished performing maintenance operations on Realtek RTL8139/810x Fast Ethernet NIC Driver Setup.
< Back
Finish
Cancel

4. Click **Finish** to complete the installation procedure and restart Glaive.

Audio Driver Installation

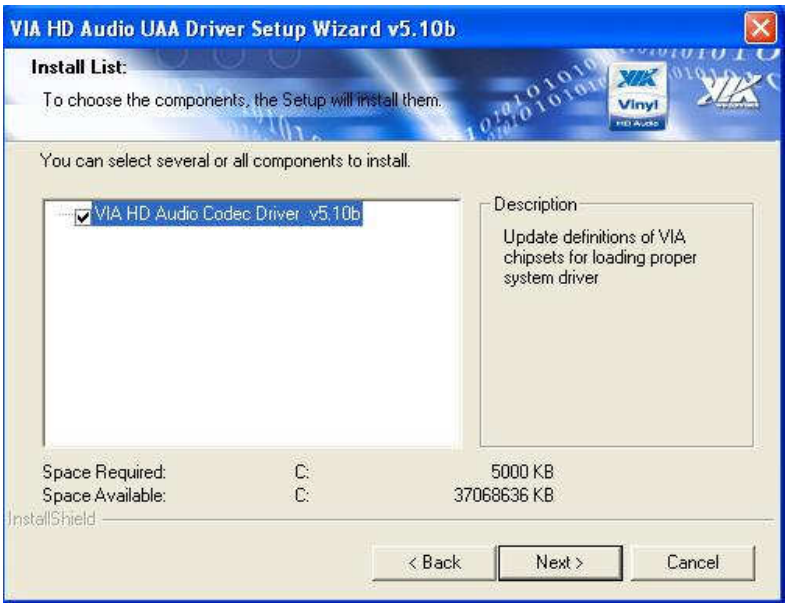
Audio Driver Installation for all Windows Operating Systems

1. Open **D:\AUDIO**
2. Run **SETUP.EXE**


InstallShield Wizard
Preparing to Install...
Platform Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Checking Operating System Version
Cancel

VIA HD Audio UAA Driver Setup Wizard v5.10b
Welcome
Update or remove the program.
Welcome to the VIA HD Audio UAA Driver Setup Program Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Install/Update(U)
Select components to update or add new component to install
Remove
Select components to remove
InstallShield
< Back
Next >
Cancel
U-Version 5.2.1.25

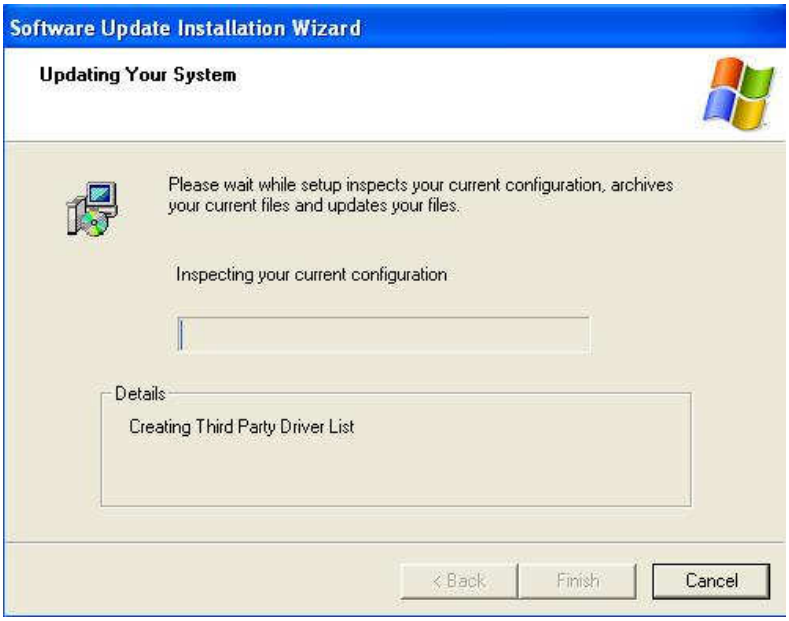
3. Click **Next**


VIA HD Audio UAA Driver Setup Wizard v5.10b
Install List:
To choose the components, the Setup will install them.
You can select several or all components to install.
VIA HD Audio Codec Driver v5.10b
Description
Update definitions of VIA chipsets for loading proper system driver
Space Required: C: 5000 KB
Space Available: C: 37068636 KB
InstallShield
< Back
Next >
Cancel

4. Click **Next**

VIA HD Audio UAA Driver Setup Wizard v5.10b
Installing Components List:
Review setting before installing components.
Setup has enough information to start installing the components. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin installing components.
Current setting:
VIA HD Audio Codec Driver v5.10b:
Update definitions of VIA chipsets for loading proper system driver
InstallShield
< Back
Next >
Cancel

5. Click **Next**


Software Update Installation Wizard
Updating Your System
Please wait while setup inspects your current configuration, archives your current files and updates your files.
Inspecting your current configuration
Details
Creating Third Party Driver List
< Back
Finish
Cancel

6. Waiting copy file

VIA HD Audio UAA Driver Setup Wizard v5.10b
Install Wizard Completed.
The Install Wizard has successfully installed VIA HD Audio UAA Driver Setup Program. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

5. Click **Finish** to complete the installation procedure and restart Glaive.

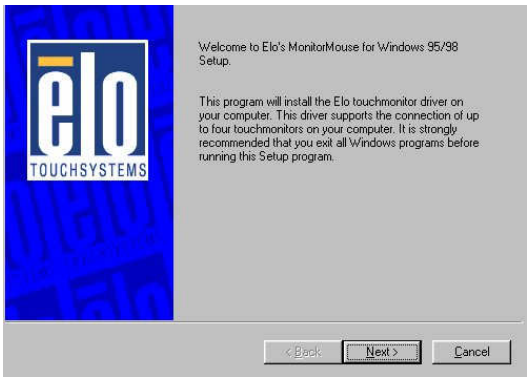
ELO Touch Tools Installation

ELO Touch Tools Installation for all Windows Operating Systems

1. Locate **D:\TOUCHSCREEN\ELO Touch**
2. Select the relevant ELO folder for the operating system that you are using.

Example. If you are installing for a Windows 98 system, then select **Elo Win9x_Me**. If you are installing under Windows 2000 or XP then select **Elo Touch 2K_XP**

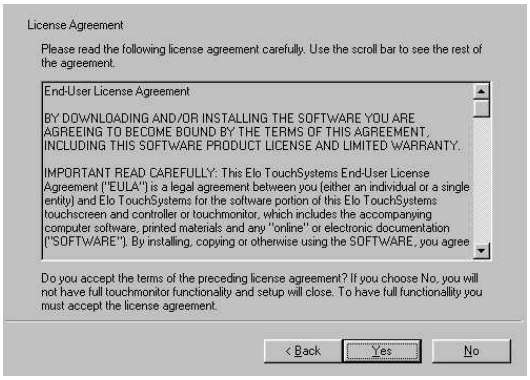
3. Run **Setup.exe**


Welcome to Elo's MonitorMouse for Windows 95/98 Setup.
This program will install the Elo touchmonitor driver on your computer. This driver supports the connection of up to four touchmonitors on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
< Back
Next >
Cancel

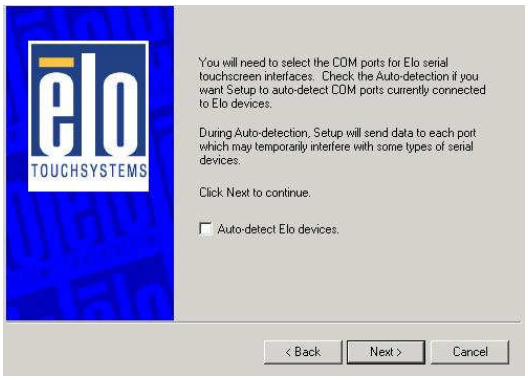
4. Click **Next**

Elo Touchscreen Setup
Welcome to Elo Touchscreen Setup.
This program will install the Elo USB and Serial touchscreen drivers on your computer. It is strongly recomended that you exit all Windows programs before running this Setup program.
Install Serial Touchscreen Drivers
Install USB Touchscreen Drivers
< Back
Next >
Cancel

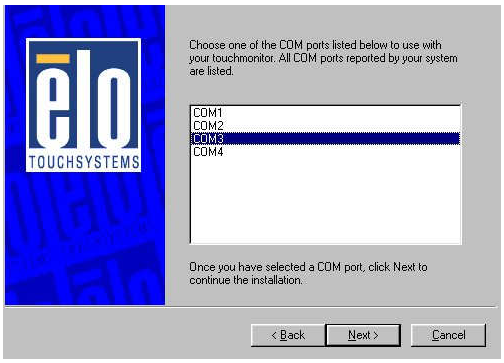
5. Check “Install serial Touch screen Drivers.” And Click **Next**.


License Agreement
Please read the following license agreement carefully. Use the scroll bar to see the rest of the agreement.
End-User License Agreement
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Elo TouchSystems for the software portion of this Elo TouchSystems touchscreen and controller or touchmonitor, which includes the accompanying computer software, printed materials and any "online" or electronic documentation ("SOFTWARE"). By installing, copying or otherwise using the SOFTWARE, you agree
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionality you must accept the license agreement.
< Back
Yes
No

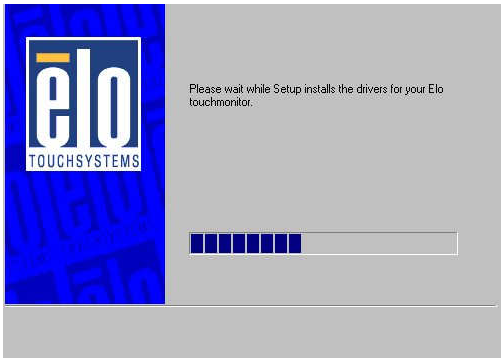
6. Read the ***"License Agreement"*** and click **Yes** if you accept it.


You will need to select the COM ports for Elo serial touchscreen interfaces. Check the Auto-detection if you want Setup to auto-detect COM ports currently connected to Elo devices.
During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices.
Click Next to continue.
Auto-detect Elo devices.
< Back
Next >
Cancel

7. Select "Auto-detect Elo devices." and click **Next.**


Choose one of the COM ports listed below to use with your touchmonitor. All COM ports reported by your system are listed.
COM1
COM2
COM3
COM4
Once you have selected a COM port, click Next to continue the installation.
< Back
Next >
Cancel

8. Select the COM port for the touch monitor. It is recommended that you select COM3 for the touch screen, as this port is internally configured for touch operation.

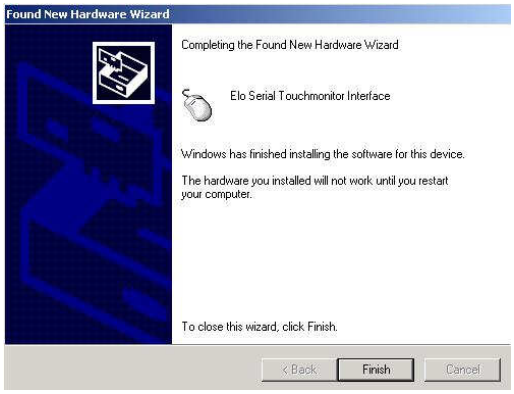


9. Wait until the ELO Touch Tools have been installed.

Setup Complete.
Setup has finished installing the Elo touchmonitor driver.
You can choose to view the Elo Touchscreen control panel to customize touchscreen settings after setup finishes.
View Elo Touchscreen control panel.
Click Finish to exit Setup.
< Back
Finish

10. Select View ELO touch screen control panel and click **Finish**.

IT MAY BE NECESSARY TO RESTART YOUR COMPUTER TO UTILIZE YOUR TOUCHSCREEN FEATURES.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
Elo Serial Touchmonitor Interface
Windows has finished installing the software for this device.
The hardware you installed will not work until you restart your computer.
To close this wizard, click Finish.
< Back
Finish
Cancel

11. **Click NEXT while this window appears after system finishs rebooting.**

System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

12. **Click YES to restart your computer again.**

After the system finishes rebooting follow the directions to calibrate ELO Touch Tools.

ELO Control Panel

This section explains the different options in the ELO control Panel.

General tab

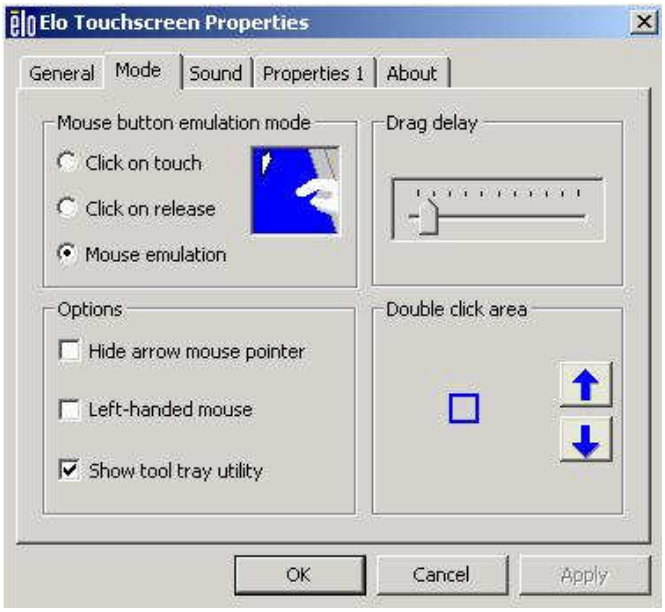
The general tab allows you to:

- Change the COM port your touch screen is set to.
- Calibrate the touch screen with the **Align** button.

Mode tab

The Buttons tab allows you to:

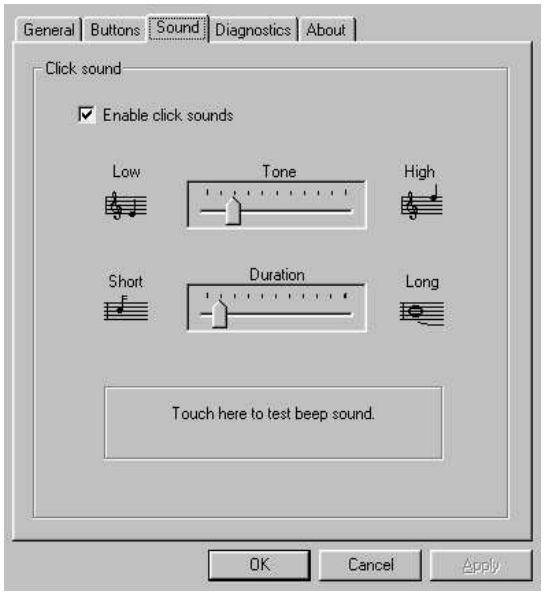
- Adjust all mouse emulation controls.
- Change cursor properties
- Enable or disable right mouse button utility.



Sound tab

The Sound tab allows you to:

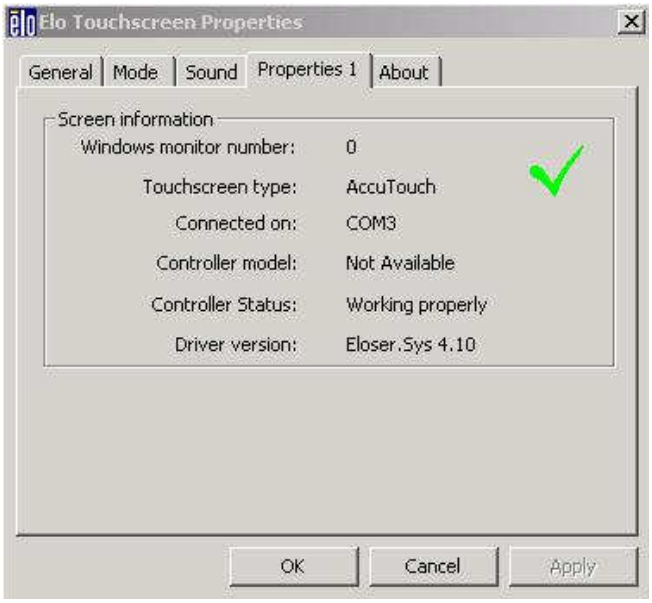
- To change sound properties for ELO touch tools.



Properties tab

The Diagnostics tab allows you to:

- View Controller Information.



About tab

The About tab displays Information about ELO Touchsystems

TouchKit Tools Installation

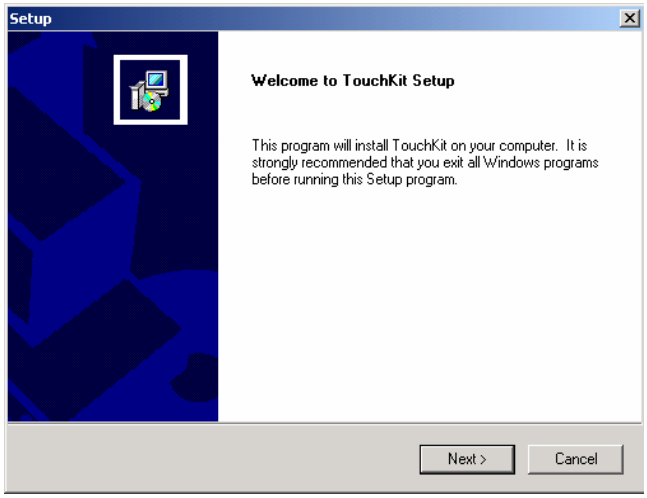
TouchKit Tools Installation for all Windows Operating Systems

1. Locate **D:\TOUCHSCREEN\eGalax Touch\Driver**

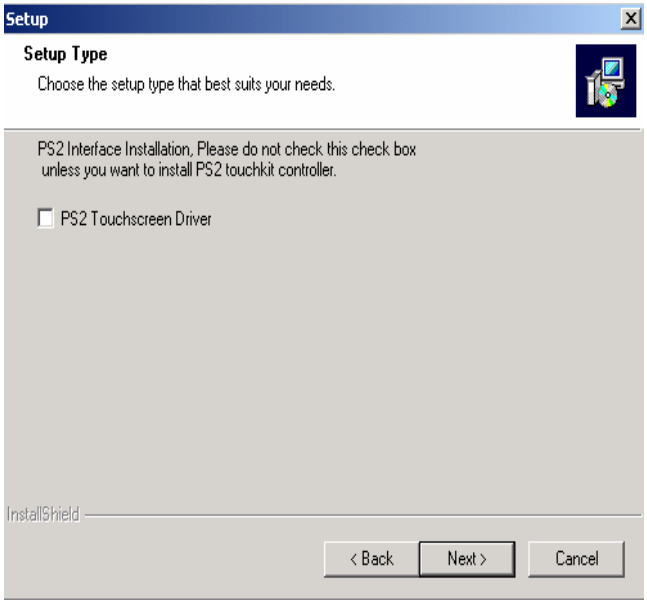
2. Select the relevant eGalax folder for the operating system that you are using.

Example. If you are installing for a Windows 98 system, then select **Win9x_Me**. If you are installing under Windows 2000 or XP then select **Win2000_XP**

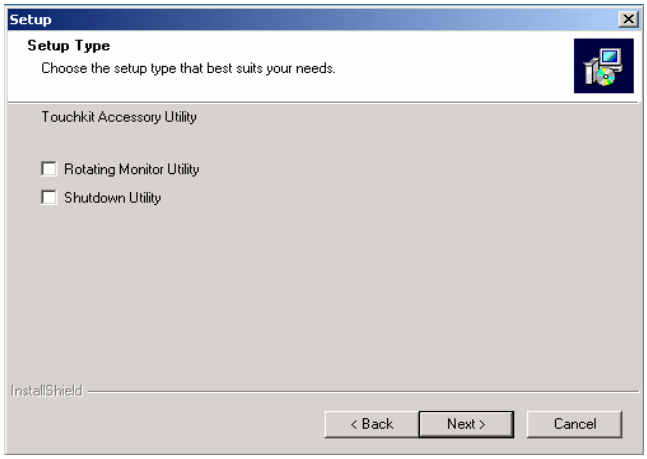
3. Run **Setup.exe**


Setup
Welcome to TouchKit Setup
This program will install TouchKit on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
Next >
Cancel

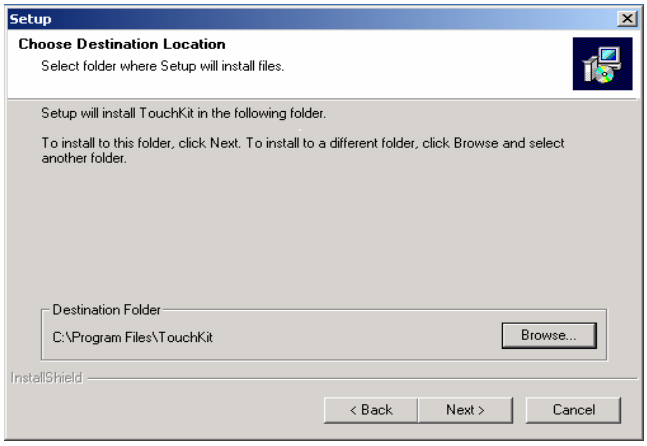
4. Click **Next**


Setup
Setup Type
Choose the setup type that best suits your needs.
PS2 Interface Installation, Please do not check this check box unless you want to install PS2 touchkit controller.
PS2 Touchscreen Driver
InstallShield
< Back
Next >
Cancel

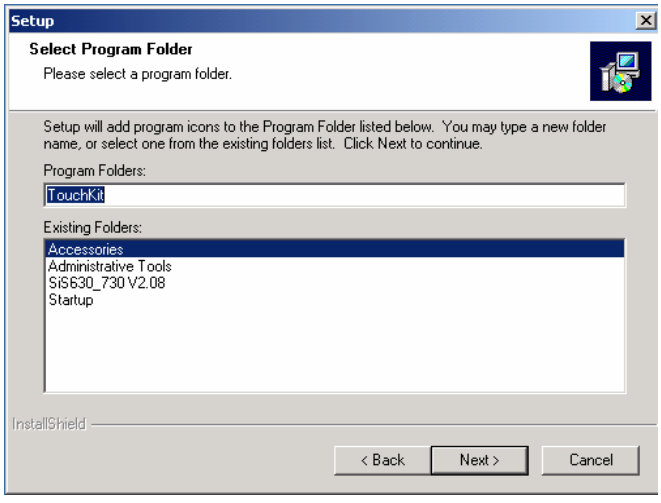
5. Click **Next**



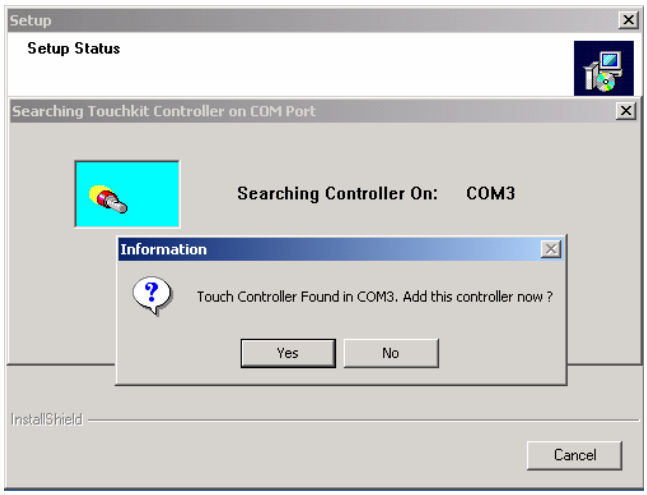
6. Click **Next**


Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install TouchKit in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\TouchKit
Browse...
InstallShield
< Back
Next >
Cancel

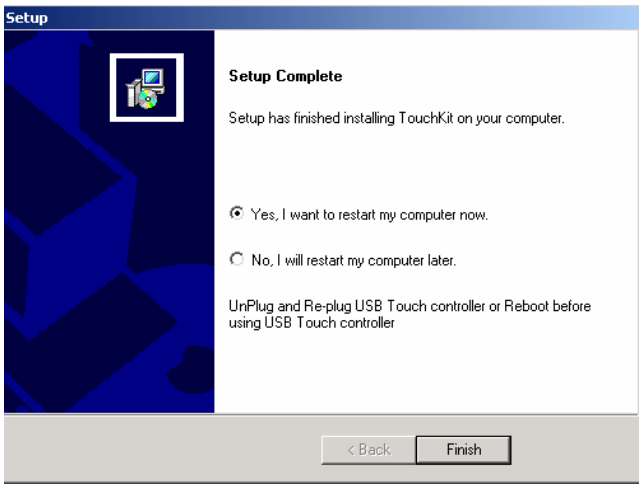
7. Click **Next**


Setup
Select Program Folder
Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folders:
TouchKit
Existing Folders:
Accessories
Administrative Tools
SiS630_730 V2.08
Startup
InstallShield
< Back
Next >
Cancel

8. Click **Next**



9. Click **Yes**


Setup
Setup Complete
Setup has finished installing TouchKit on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
UnPlug and Re-plug USB Touch controller or Reboot before using USB Touch controller
< Back
Finish

10. Click **Finish to restart your computer again.**

After the system finishes rebooting follow the directions to calibrate the Touch screen.

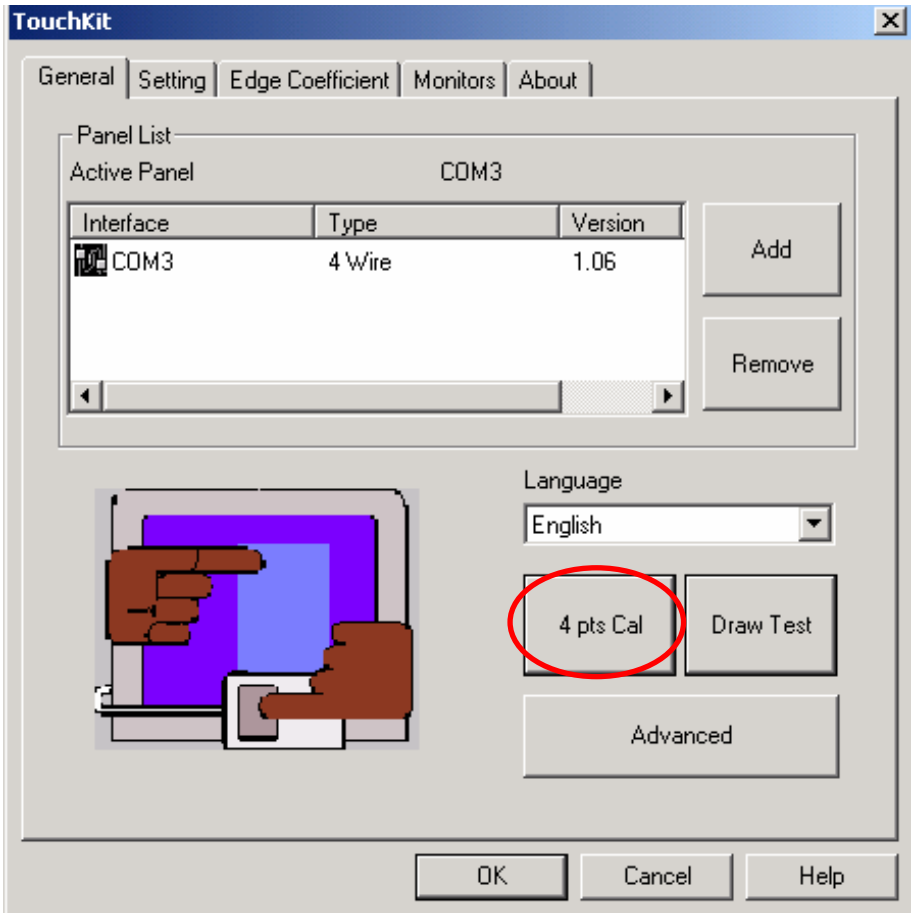
TouchKit Control Panel

This section explains the different options in the TouchKit control Panel.

General tab

The general tab allows you to:

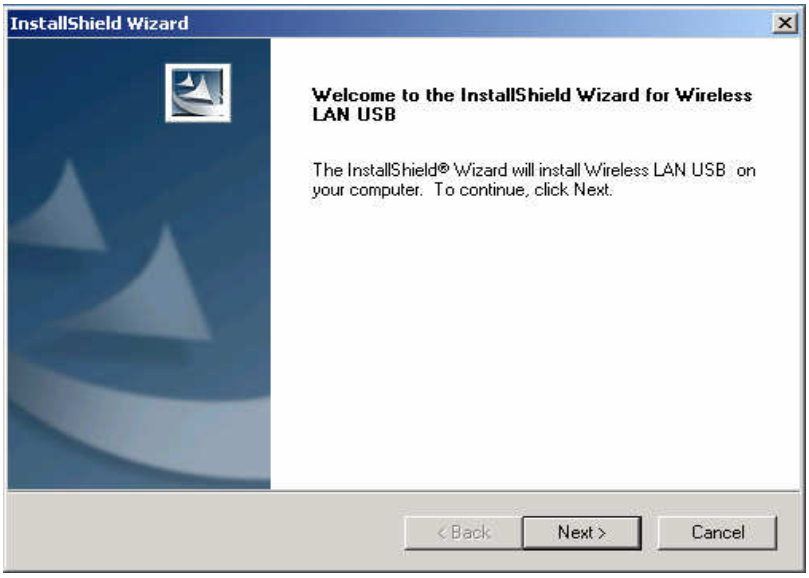
- Change the COM port your touch screen is set to.
- Calibrate the touch screen with the **4 pts Cal** button.



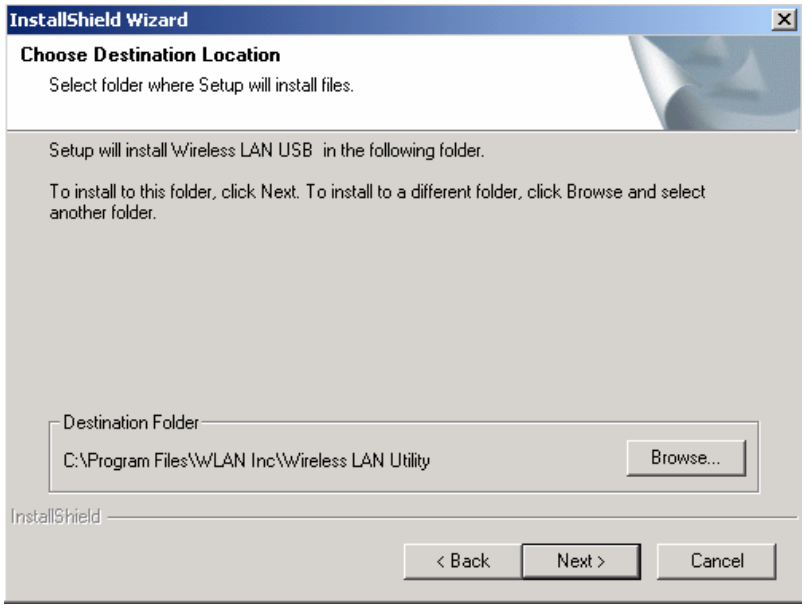
Wireless LAN Driver Installation

Wireless LAN Driver Installation for all Windows Operating Systems (Optional)

1. Open **D:\Wireless LAN folder**
2. Run **Setup.EXE**


InstallShield Wizard
Welcome to the InstallShield Wizard for Wireless LAN USB
The InstallShield® Wizard will install Wireless LAN USB on your computer. To continue, click Next.
< Back
Next >
Cancel

3. Click **Next**


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Wireless LAN USB in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\WLAN Inc\Wireless LAN Utility
Browse...
InstallShield
< Back
Next >
Cancel

4. Click **Next**

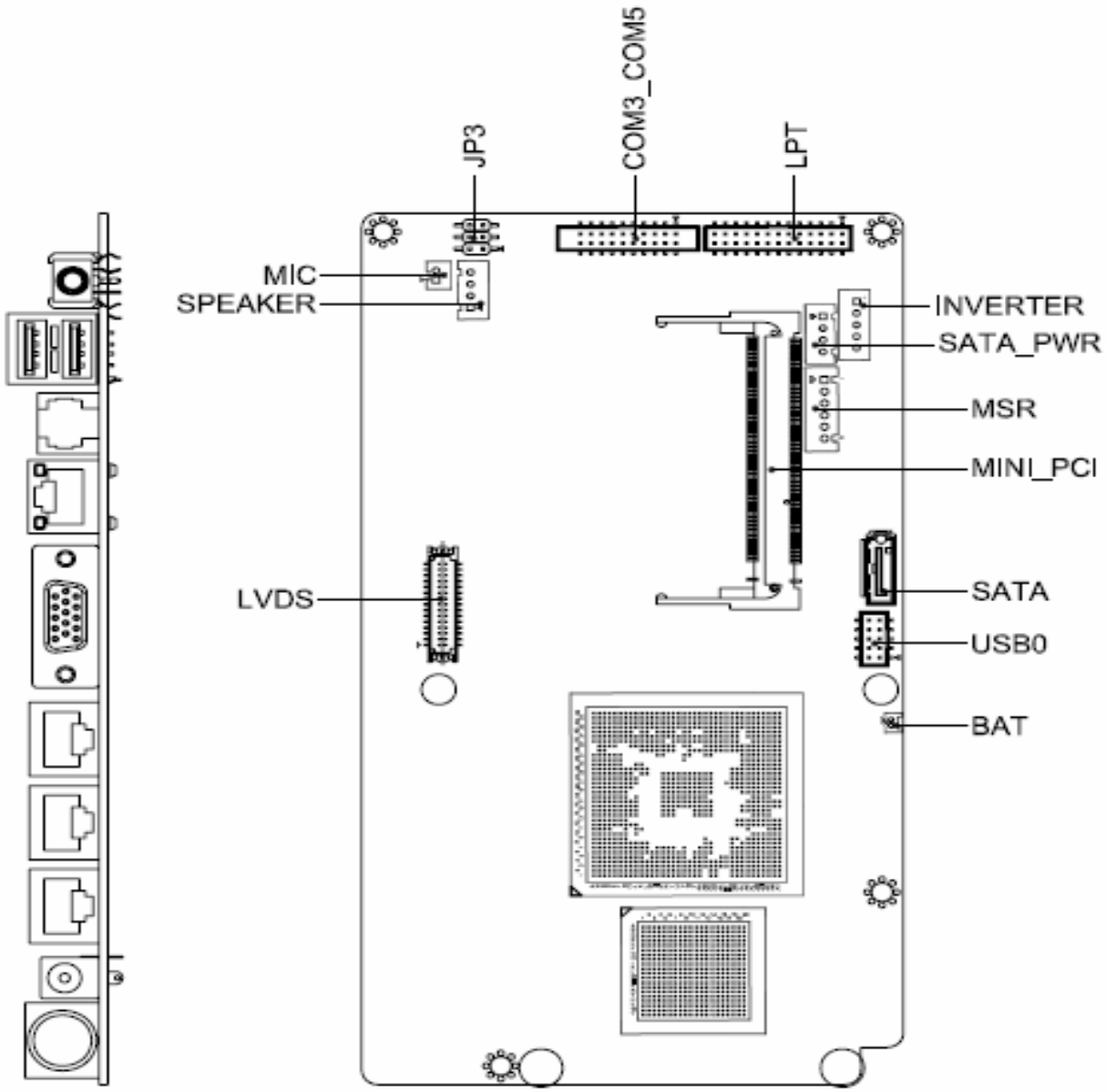
Chapter 4

Specifications

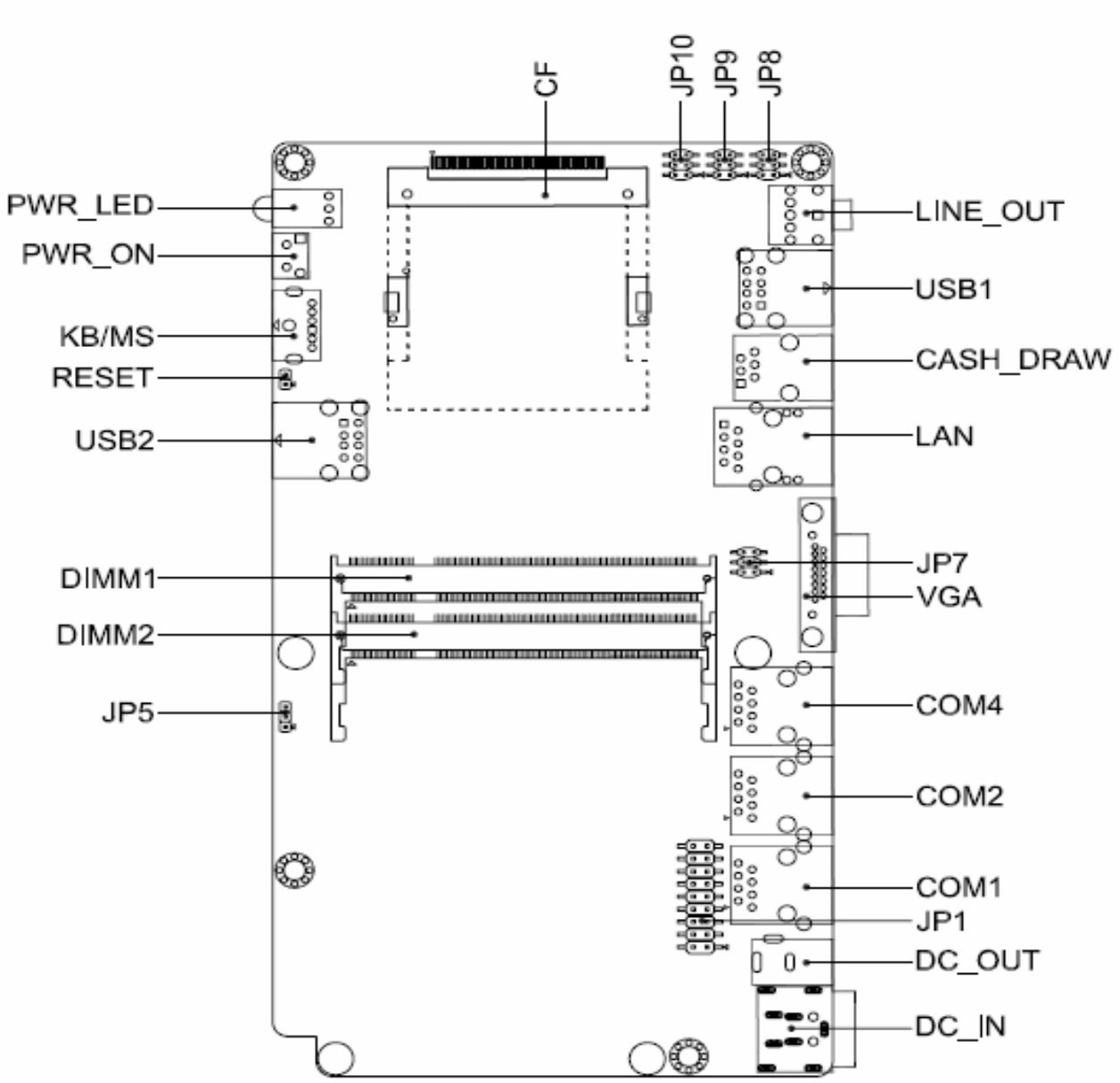
	KM-150B
CPU	VIA® Eden (V4 Bus) series processors up to 1.0GHz with FSB 400
Chipset	- VIA® CX700M - ITE IT8712
System Memory	- One 200-pin SO-DIMM socket (2nd as optional) - Supports DDRII 400/533 SDRAM up to 1GB
Primary SVGA	- VIA CX700M integrated - Shared system memory up to 128/MB
Primary LCD Panel	15” TFT LCD Panel (1024X768)
Primary Touch Panel	ELO 5-wire resistive touch panel or 4-wire resistive touch panel
Dual Display	Support independent dual display
Compact Flash Disk socket	Type II Compact Flash™ Disk. The Flash Disk provides 100% compatibility with IDE hard disk.
Watchdog Timer	- Support WDT function through software programming for enable/disable and interval setting. - Generate system reset or non-maskable interrupt (NMI)
Real Time Clock /Calendar (RTC)	Support Y2K Real Time Clock/Calendar with battery backup for 7-year data retention
Power	60 -Watt external power adapter.

Optional Features	
Magnetic card reader	Integrated Single／Dual／Triple Track MCR.
HDD	Internal 2.5” 40GB (or above) hard disk drive.
Power Consumption	
	20-30W Idle (Standard system and accessing HDD)

MainBoard Configuration



KM-150B with FEB-7000 Main Board



This chapter describes how to connect peripherals, switches and indicators to the FEB7000 board.

Label	Function
JP1	COM1/COM2/COM4 Ring/+5V/+12V Selection
JP3	COM3/COM5 +5V/+12V Selection
JP5	Clear CMOS
JP7	LCD Voltage Selection
JP8	COM1 Mode Selection
JP9	COM2 Mode Selection
JP10	COM4 Mode Selection

Label	Function
BAT	Battery Connector
CASH_DRAW	Digital I/O connector
CF	CompactFlash Slot
COM1	RS-232 Serial Port Connector
COM2	RS-232 Serial Port Connector
COM3_COM5	RS-232 Serial Port Connector
COM4	RS-232 Serial Port Connector
DC_IN	+12V DC In power connector
DC_OUT	+12V DC Out power connector
DIMM1	DIMM Slot
DIMM2	DIMM Slot
INVERTER	INV Connector
KB/MS	PS2 Keyboard/Mouse Connector
LAN	10/100 or Base-Tx Ethernet Connector
LINE_OUT	Audio 2 Channel Connector
LPT	LPT Port Connector
LVDS	LVDS Connector
MIC	Mic in Connector
MINI_PCI	Mini PCI Slot
MSR	Internal Keyboard connector
PWR_LED	Power LED
PWR_ON	Power on Switch
SATA	SATA1 Connector
SATA_PWR	SATA Power connector
SPEAKER	Audio Connector
USB0	USB0 Connector
USB1	USB1 Connector
USB2	USB2 Connector
VGA	VGA Display Connector

COM1/COM2/COM4 Ring/+5V/+12V Selection(JP1)

COM1			COM2			COM4		
1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18
+12V	+5V	Ring	+12V	+5V	Ring	+12V	+5V	Ring
		Default			Default	Default		

COM3/COM5 +5V/+12V Selection(JP3)

1-2	3-4
+12V	+5V
	Default

Clear CMOS(JP5)

1-2	2-3
Protected	Clear

LVDS Voltage Selection(JP7)

	LVDS-LCD
+5V	5-6
+3.3V	1-2,3-4(Default)

COM1 Mode Selection (JP8)

JP8	Description
1-2	Short CTS-RTS
3-5	+12V or +5V output
4-6	Ground out

COM2 Mode Selection (JP9)

JP9	Description
1-2	Short CTS-RTS
3-5	+12V or +5V output
4-6	Ground out

COM4 Mode Selection (JP10)

JP10	Description
1-2	Short CTS-RTS
3-5	+12V or +5V output
4-6	Ground out